

WHAT IS CLAIMED IS:

1. A vending machine comprising:

an article carrying-out device which carries out an article;  
a receiving section in which the article carried out from said article carrying-out device is received;

a vibration detection means which detects vibrations generated in said receiving section; and

a judgment means which judges that the article is received in said receiving section on the basis of the vibrations detected by said vibration detection means and excludes vibrations detected in a time slot, in which vibrations due to carrying-out of an article cannot be generated, after said article carrying-out device is started among vibrations detected by said vibration detection means.

2. A vending machine comprising:

an article carrying-out device which carries out an article;  
a receiving section in which the article carried out from said article carrying-out device is received;

a vibration detection means which detects vibrations generated in said receiving section;

a judgment means which judges that the article is received in said receiving section on the basis of the vibrations detected by said vibration detection means; and

a control means which controls the article carrying-out operation of said article carrying-out device to be prohibited for a predetermined time when vibrations are detected at least once by said vibration detection means at the time of standby for carrying out the article.

3. A vending machine comprising:

an article carrying-out device which carries out an article;

a receiving section in which the article carried out from said article carrying-out device is received;

a vibration detection means which detects vibrations generated in said receiving section;

a judgment means which judges that the article is received in said receiving section on the basis of the vibrations detected by said vibration detection means and excludes vibrations detected in a time slot, in which vibrations due to carrying-out of an article cannot be generated, after said article carrying-out device is started among vibrations detected by said vibration detection means; and

a control means which controls the article carrying-out operation of said article carrying-out device to be prohibited for a predetermined time when vibrations are detected at least once by said vibration detection means at the time of standby for carrying out the article.

4. The vending machine according to claim 2,

wherein the vibrations detected by said vibration detection means are vibrations detected intermittently twice or more.

5. The vending machine according to claim 3,

wherein the vibrations detected by said vibration detection means are vibrations detected intermittently twice or more.

6. The vending machine according to claim 4,

wherein a time interval of the vibrations is a time interval shorter than a time in which the article carrying-out operation is

completed.

7. The vending machine according to claim 5,

wherein a time interval of the vibrations is a time interval shorter than a time in which the article carrying-out operation is completed.

8. The vending machine according to claim 2,

wherein the predetermined time, in which the article carrying-out operation of said article carrying-out device is prohibited, is set substantially equal to or slightly longer than a time required for carrying out one article.

9. The vending machine according to claim 3,

wherein the predetermined time, in which the article carrying-out operation of said article carrying-out device is prohibited, is set substantially equal to or slightly longer than a time required for carrying out one article.

10. The vending machine according to claim 4,

wherein the predetermined time, in which the article carrying-out operation of said article carrying-out device is prohibited, is set substantially equal to or slightly longer than a time required for carrying out one article.

11. The vending machine according to claim 5,

wherein the predetermined time, in which the article carrying-out operation of said article carrying-out device is prohibited, is set substantially equal to or slightly longer than a time required for

carrying out one article.

12. The vending machine according to claim 6,

wherein the predetermined time, in which the article carrying-out operation of said article carrying-out device is prohibited, is set substantially equal to or slightly longer than a time required for carrying out one article.

13. The vending machine according to claim 7,

wherein the predetermined time, in which the article carrying-out operation of said article carrying-out device is prohibited, is set substantially equal to or slightly longer than a time required for carrying out one article.